

Ahmed G. Meselhy Ali
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Academic and Research appointments

Jul 2023-present	Postdoctoral researcher, Amherst College, MA, USA
Sep 2022-Jun 2023	Postdoctoral researcher, UMass Amherst, MA, USA
2016-2022	Graduate research/ teaching assistant, UMass Amherst, MA, USA
2013-2016	Assistant lecturer, Al -Azhar University, Egypt
2012-2013	Teaching Assistant, Al -Azhar University, Egypt
2009-2012	M.Sc. research fellow, Academy of Scientific Research and Al-Azhar University, Egypt
2009-2012	Research Assistant, Cell Research Department, Agriculture Research Center, Egypt

Education and Academic Training

Ph.D.	Plant Biology Program, University of Massachusetts Amherst, MA, USA	2016-2022
M.Sc.	Biotechnology-Bioinformatics, Al-Azhar University, Cairo, Egypt	2009-2013
B.Sc.	Biotechnology, Al-Azhar University, Cairo, Egypt	2004-2008

Publications

1. **Ahmed G. Meselhy**; Kareem Mosa; Kundan Kumar; Jason C. White; and Om Parkash Dhankher. OsPIP1;3 Contributes to Arsenic Transport in Rice (*Oryza sativa* L.) (in preparation)
2. **Ahmed G. Meselhy**; Kareem Mosa; Sudesh Chhikara; Kundan Kumar; Craig Musante; Jason C. White; and Om Parkash Dhankher. Plasma membrane intrinsic protein OsPIP2;6 is involved in root-to-shoot arsenic translocation in rice (*Oryza sativa* L.). *Plant Cell Reports* (2024) 43:64. <https://doi.org/10.1007/s00299-024-03157-3>
3. **Meselhy, A. G.**; Sharma, S.; Guo, Z.; Singh, G.; Yuan, H.; Tripathi, R. D.; Xing, B.; Musante, C.; White, J. C.; Dhankher, O. P. Nanoscale Sulfur Improves Plant Growth and Reduces Arsenic Toxicity and Accumulation in Rice (*Oryza Sativa* L.). *Environ. Sci. Technol.* **2021**, 55 (20), 13490–13503. <https://doi.org/10.1021/ACS.EST.1C05495>
4. Ma, C.; Hao, Y.; Zhao, J.; Zuverza-Mena, N.; **Meselhy, A. G.**; Dhankher, O. P.; Rui, Y.; White, J. C.; Xing, B. Graphitic Carbon Nitride (C3N4) Reduces Cadmium and Arsenic Phytotoxicity and Accumulation in Rice (*Oryza Sativa* L.). *Nanomaterial.* **2021**, Vol. 11, Page 839 2021, 11 (4), 839. <https://doi.org/10.3390/NANO11040839>.
5. Kumar, K.; Mosa, K. A.; **Meselhy, A. G.**; Dhankher, O. P. Molecular Insights into the Plasma Membrane Intrinsic Proteins Roles for Abiotic Stress and Metalloids Tolerance and Transport in Plants. *Indian J. Plant Physiol.* **2018**, 23 (4), 721–730. <https://doi.org/10.1007/S40502-018-0425-1>

Teaching

Teaching Assistance

@ University of Massachusetts Amherst

2022 (Spring) Plant Cell Biology (Biology 475), Biology dept, UMass Amherst

2021 (Spring)	Gene and Genome Analysis (Biology 383H), Biology dept, UMass Amherst
2018, 2019, 2020 (Falls)	Life After Biology (Bio 494L) Biology dept, UMass Amherst

@ Al-Azhar University, Egypt

2012-2016 (Fall and Spring)	Molecular Biology, Genomics and Genome Maps, Genetic Engineering, Genetically Modified Organisms and Biosafety Legislation
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Awards and Scholarships

2021	Albert L. Delisle Scholarship: valued at \$800.00, UMass Amherst
2015	Egyptian Scholarship for Ph.D. Study in the US: Awarded a four-year full coverage scholarship (~\$250,000)
2009	Scientists for Next Generations (SNG) Scholarship covers 4 years stipend

Travel grants

2019	Northeastern American Society Of Plant Biologist, Montreal, Canada
2017	Northeastern American Society Of Plant Biologist, Yale University, CT, USA
2017	International Phytotechnology Society, Montreal, Canada (could not attend due to Visa issue)

Talks and seminars

2022	Lighting talk, Stockbridge Student Symposium, Feb 13 th , 2022
2022	ASA, CSSA and SSSA International Annual Meetings (2022), Baltimore, Maryland- November 6-9, 2022
2019	Stockbridge School of Agriculture seminar series, UMass Amherst, MA

Poster presentations

2024	ICAR, San Diego, CA, July 15-19, 2024
2021	ASA, CSSA and SSSA International Annual Meetings (2021), Salt Lake City, Utah, USA November 7-11, 2021
2021	NEASPB virtual meeting, October 30, 2021
2020	ASA, CSSA and SSSA International Annual Meetings (2020), Virtual, November 9-13, 2020
2019	Plant Biology 2019 August 3-7, San Jose, CA, USA
2019	NEASPB meeting, 2019, University of New Hampshire, NH, USA
2018	NEASPB meeting, 2018 University of Massachusetts Amherst, MA
2017	NEASPB meeting, 2017, Yale University, CT, USA

Reviewer (Journal articles)

Scientific Reports, New phytologist, Environmental Geochemistry and Health, and International Journal of Phytoremediation

Mentoring Experience

2024	Yash Patel, Amherst College
2022	Sydney Strauss, UMass Amherst
2022	Sam Parker, University of Massachusetts Amherst
2021	Liam Sheedy, University of Massachusetts Amherst
2021	Henry Dionne, University of Massachusetts Amherst
2020	Zachry Thoutte, University of Massachusetts Amherst
2018	Jenny Patel, University of Massachusetts Amherst
2012-2016	Mentored many students every year for senior year graduation project, Al-Azhar University, Egypt